



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: April 2, 1991

TO: Margaret Howard, DLC/Water

FROM: Rob Sulski, DWPC/FOS-II

SUBJECT: MWRDGC - 103rd & Doty Landfill

TO: RU File
MWRD -

CC: DWPC/FOS, B. Busch
DWPC/Permits, A. Keller
DLPC, C. Gould
DLPC, G. Bruni
ERU, E. Osowski
Region II File
Del Haschemeyer

RECEIVED
Field Operations Section
APR - 8 1991

EM
FCY
EM

Environmental Protection Agency
State of Illinois

Early last week the City of Chicago halted construction on a Stony Island Avenue improvements project next to the MWRD operated 103rd & Doty Landfill when leachate sprang from the bottom of a ditch the City was trenching. ERU sampled the ditch and turned the samples over to me for delivery to the Chicago Lab.

Last Thursday two Kudrna & Associates surveyors and I drove along Stony Island and observed the presence of orange-brown leachate like waters in about a 200 yard stretch of a ditch along the east side of the road, parallel with the east boarder of the landfill. The surveyors were working under a contract with the Illinois Port Authority who owns the landfill and other adjacent properties.

Yesterday ERU's Ed Osowski, DLPC's Cliff Gould and I met over the City's sample results (attached) and then Ed O. and I called Chicago's representative on the road project. We explained the ammonia (= 119.4 to 282.3 mg/l) and ROE (= 2,095 to 4,023 mg/l) along with our visual observations suggest the ditch is indeed carrying leachate and advised precaution in continuing the project. Further, we discouraged pumping the contaminated ditch water to other waters, suggesting the City instead contact MWRD.

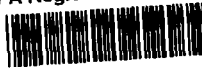
Presently, I am arranging an ASAP post-"Phase I Closure" meeting with MWRD. Leachate management will be an important element of the meeting. DLPC and DWPC Permits personnel are encouraged to attend.

(Comment: I suspect MWRD's clay capping of the side slopes may have increased the hydraulic head on the landfill and exacerbated the seepage problem.)

Attachment

RBS

EPA Region 5 Records Ctr.



300916



City of Chicago
Richard M. Daley, Mayor

Department of
Consumer Services

Caroline Orszag Shoenberger
Commissioner

Energy & Environmental Division
510 North Paulina Court, 1st Floor
Chicago, Illinois 60612
(312) 744-7670

FACSIMILE TRANSMITTAL COVER SHEET

DATE: 4-1-91

TIME: 2:02 PM.

*** PLEASE DELIVER THE FOLLOWING TRANSMITTAL ***

TO: BD OSOWSKI

DEPARTMENT: IEPA

FROM: RAUL VALDIVIA / TPC.

TOTAL NO. OF PAGES, INCLUDING COVER SHEET: 3

WE ARE TRANSMITTING FROM A SHARP UX-180 TELECOPIER
(312) 744-1529

COMMENTS: RE: water analysis result at
Stony Island 108rd & 122nd.

Please call me at: (312) 744-8181

Thanks.

IF YOU DO NOT RECEIVE TOTAL TRANSMISSION, PLEASE CONTACT US AT:
(312) 744-7672.

THANK YOU.



SENT BY FAX 01 191.13123

4- 1-01 :12:04PM BUREAU OF WTR. OPER.-

874483.01# 8/ 2

~~For~~ Raul Valdivia - Fax No. 744-1529

From, Ted Maynard

CITY OF CHICAGO
DEPARTMENT OF WATER
PURIFICATION DIVISION LABORATORIES
CHEMISTRY UNIT

Date: 3-25-91

Date collected: 3-20-91
Collected by: A.W./ WQSS
Date Rec'd in Lab: 2-25-91

Sample Source: East ditch
Location: Stony Island 103rd-122nd
Submitted by: Dept of Public Works

COMPREHENSIVE ANALYSIS

PARAMETER

WQSS No Lab No. Sample	Q136 1C113 Station 77+50' East Ditch	Q135 1C114 Station 98 + 0.0' East Ditch
pH, Std. Units	8.6	8.8
Chloride, mg/L	333	1,245
Fluoride, mg/L	0.47	0.78
Phenol, ug/L	4.3	2.0
Residue, non filtrable, mg/L	125	27
Residue, filterable, mg/L	2,095	4,023
Oxygen Demand, chem, mg/L	212	420
Oxygen Demand, Biological, mg/L	33	70
Dissolved oxygen, mg/l	8.6	6.2
Nitrogen, ammonia, mg/L	119.4	282.3
Nitrogen, NO2/NO3, mg/L	0.09/0.18	0.11/0.14
Nitrogen, TKN, mg/L	146	288
Cyanide, mg/L	<0.002	0.010
Oil and Grease, mg/L	<0.5	<0.5

BUREAU OF WTR. OPER.

87442.28:1:2

To: Real Valdivia - Fax No. 744-1529
 From: Ted Maynard

PARAMETER

Boron, ug/L	10.6	16.4
Cadmium, ug/L	<1	3
Chromium, ug/L	6	6
Copper, ug/L	7	165
Iron, Total, ug/L	1,428	2,158
Lead, ug/L	<3	<3
Magnesium, mg/L	83.5	45.5
Silver, ug/L	<1	19
Strontium, ug/L	317	321
Zinc, ug/L	16	16

Analyst: Staff

Jim Millan
 DIRECTOR, WATER PURIFICATION LABS.

Ann D. Wenzel
 CHIEF WATER CHEMIST

Carlton W. Dubois
 ENGINEER OF WATER PURIFICATION